

## Cell Structure and Function • Guided Reading and Study

**The Cell in Its Environment** (pp. 32–37)

*This section tells how things move into and out of cells.*

**Use Target Reading Skills**

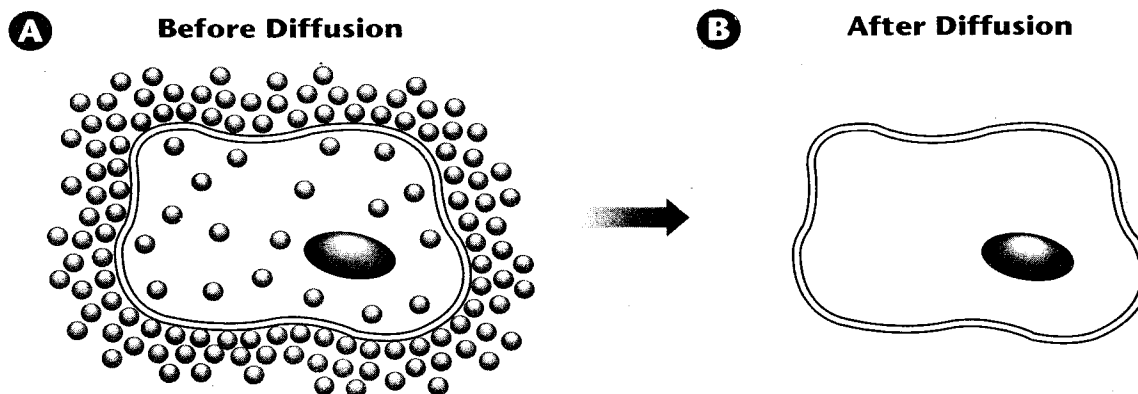
*After you read the section, reread the paragraphs that contain definitions of Key Terms. Use all the information you have learned to write a definition of each Key Term in your own words.*

**Introduction** (p. 32)

1. The cell membrane is \_\_\_\_\_, which means that some substances can pass through it while others cannot.

**Diffusion** (pp. 33–34)

2. List three ways that substances can move into and out of a cell.
  - a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_
3. In diffusion, molecules move from an area of \_\_\_\_\_ concentration to an area of \_\_\_\_\_ concentration.
4. Draw molecules on Part B of the diagram below to show how the molecules are distributed inside and outside the cell after diffusion has occurred.



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**Osmosis** (pp. 34–35)

5. In \_\_\_\_\_, water molecules diffuse through a selectively permeable membrane.

**Active Transport** (pp. 36–37)

6. Two ways of moving things into and out of cells that do NOT need energy are \_\_\_\_\_ and \_\_\_\_\_.  
Moving materials through a cell membrane without using energy is called \_\_\_\_\_ transport.
7. How does active transport differ from passive transport?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
8. List two ways that the cell moves things by active transport.  
a. \_\_\_\_\_  
b. \_\_\_\_\_
9. Is the following sentence true or false? As a cell gets larger, it takes longer for a molecule that has entered the cell to reach the middle of the cell.  
\_\_\_\_\_